

Amendments to the Claims:

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1-75 (canceled)

TECHNOLOGY CENTER R3700

5/11/03
76. (currently amended) A treatment apparatus, comprising:
an energy delivery device[;] including at least a first and a second energy delivery member coupled to the energy delivery device, wherein the first energy delivery member is a light energy delivery member device and the second energy member is a non-light an RF energy delivery member device, and at least one energy delivery surface, the at least one energy delivery surface configured to deliver energy from the light energy member and the RF energy member to and through a skin surface and create a tissue effect at the skin surface or at a tissue below the skin surface; and

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[a cooling member coupled to the energy delivery device.

77. - 80. (canceled)

2 81. (currently amended) The apparatus of claim ⁷⁶77, further comprising:
a feedback control coupled to at least one of the cooling member, the ~~first RF electrode and the light delivery device~~ light energy member or the RF energy member.

3 82. (previously presented) The apparatus of claim ⁷⁶77, wherein the cooling member is configured to deliver a controllable amount of cooling fluidic medium.

4 83. (currently amended) The apparatus of claim ⁷⁶76, wherein the cooling member is configured to cool at least a portion of the at least one ~~an~~ energy delivery surface ~~of the energy delivery device.~~

12 84. (previously presented) A treatment apparatus, comprising:
an energy delivery device including an energy delivery surface;
at least a first and a second energy delivery member coupled to the energy delivery device, the first and second energy delivery members delivering different types of energy; and
a cooling member coupled to the energy delivery device,

wherein the cooling member is configured to evaporatively cool a back surface of the energy delivery surface and conductively cool a tissue site.

13/ 85. (currently amended) A treatment apparatus, comprising:
an assembly;

~~an electromagnetic energy device coupled to the assembly including at least a light energy delivery device and a second energy delivery device that is a non-light energy delivery device~~ an energy delivery device coupled to the assembly, the energy delivery device including at least a light energy member, an RF energy member, and at least one energy delivery surface, the at least one energy delivery surface configured to deliver energy from the light energy member and the RF energy member to and through a skin surface and create a tissue effect at the skin surface or at a tissue below the skin surface;

a cooling member coupled to the assembly and configured to provide cooling to at least a tissue surface; and

an electronic control device configured to facilitate operation of at least one of the ~~energy delivery devices~~ light energy member or the RF energy member.

86. - 87. (canceled)

14/ 88. (currently amended) The apparatus of claim 85 further comprising:
a second RF ~~electrode~~ energy member coupled to the assembly.

15/ 89. (currently amended) The apparatus of claim 88, wherein the first and second RF ~~electrodes~~ energy members are bipolar electrodes.

16/ 90. (currently amended) The apparatus of claim 88, further comprising:
a feedback control coupled to at least one of the cooling member, the first RF electrode energy member and the light delivery device energy member.

17/ 91. (currently amended) The apparatus of claim 85, wherein the cooling member is configured to deliver a controllable amount of cooling fluidic medium to at least one of the light energy ~~delivery device~~ member or the ~~second energy delivery device~~ RF energy member.

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~~78~~92. (currently amended) The apparatus of claim 85, wherein the ~~electromagnetic energy delivery device includes an energy delivery surface and the~~ cooling member is configured to cool ~~an~~ the energy delivery surface.

20 93. (currently amended) A treatment apparatus, comprising:
an assembly including ~~an~~ at least one energy delivery surface;
an electromagnetic energy device coupled to the assembly, the electromagnetic energy device including ~~at least first and second energy delivery devices coupled to a distal portion of the assembly, wherein the first and second energy delivery devices deliver different types of electromagnetic energy~~ at least a light energy member and an RF energy member, the at least one energy delivery surface configured to deliver energy from the light energy member and the RF energy member to and through a skin surface and create a tissue effect at the skin surface or at a tissue below the skin surface;

cont. a cooling member coupled to the assembly and configured to provide cooling to at least a portion of the at least one energy delivery surface; and

an electronic control device configured to facilitate operation of at least one of the ~~energy delivery devices~~ light energy member or the RF energy member.

19 94. (currently amended) The apparatus of claim 85, wherein the cooling member utilizes fluid to cool the ~~first RF electrode~~ energy member and conductively cool a skin surface in thermal contact with the ~~tissue interface surface~~ at least one energy delivery surface.

[95. - 96. (canceled)

21 97. (previously presented) A treatment apparatus, comprising:
an energy delivery device including an energy delivery surface made at least partially of a material that transmits light;
an electromagnetic energy device including at least a first RF electrode and a light delivery device coupled to the device; and
a cooling member coupled to the device.

22 98. (previously presented) The apparatus of claim 97, further comprising:
a second RF electrode.

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99. (previously presented) The apparatus of claim 98, wherein the first and second RF electrodes are bipolar electrodes.

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100. (previously presented) The apparatus of claim 97, further comprising: an electronic control device configured to facilitate operation of at least one of the first RF electrode, the cooling member and the light delivery device.

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101. (previously presented) The apparatus of claim 97, further comprising: a sensor coupled to at least one of the first RF electrode, the cooling member and the light delivery device.

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102. (previously presented) The apparatus of claim 97, further comprising: a light energy source coupled to the light delivery device.

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103. (previously presented) The apparatus of claim 102, wherein the light energy source is a coherent light source.

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104. (previously presented) The apparatus of claim 102, wherein the light energy source is an incoherent light source.

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105. (previously presented) The apparatus of claim 97, further comprising: an RF generator coupled to the first RF electrode.

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106. (previously presented) A treatment apparatus, comprising:
an energy delivery device including an energy delivery surface;
a pair of bi-polar RF electrodes coupled to the energy delivery surface;
a light delivery device coupled to the device and positioned to transmit light through the energy delivery surface.

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107. (previously presented) The apparatus of claim 106, further comprising: an electronic control device configured to facilitate operation of at least one of the pair of bi-polar RF electrodes, the cooling member and the light delivery device.

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108. (previously presented) The apparatus of claim 106, further comprising: a sensor coupled to at least one of the RF electrode, the cooling member and the light delivery device.

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109. (previously presented) The apparatus of claim 106, further comprising:
a light energy source coupled to the light delivery device.

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110. (previously presented) The apparatus of claim 106, wherein the light
energy source is a coherent light source.

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111. (previously presented) The apparatus of claim 106, wherein the light
energy source is an incoherent light source.

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112. (previously presented) The apparatus of claim 106, further comprising:
an RF generator coupled to the RF electrode.

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113. (previously presented) A method for inducing the formation of collagen in
a selected collagen containing tissue site beneath a skin surface, comprising:
providing an energy source;
producing energy from the energy source;
cooling through the skin surface, wherein a temperature of the skin surface is
lower than the selected collagen containing tissue site; and
delivering energy from the energy source through the skin surface to the
selected collagen containing tissue site for a sufficient time to induce collagen
formation in the selected collagen containing tissue site, minimizing cellular necrosis
of the skin surface and creating a tissue effect.

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114. (previously presented) A method for inducing the formation of collagen in
a selected collagen containing tissue site beneath an epidermis skin surface,
comprising:
providing an energy source;
producing energy from the energy source;
delivering energy from the energy source through the skin surface to the
selected collagen containing tissue site for a sufficient time to induce a formation of
new collagen in the selected collagen containing tissue site while minimizing thermal
injury of the epidermis; and
creating a tissue effect.

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115. (previously presented) A method for inducing the formation of collagen in a selected collagen containing tissue site beneath a skin surface, comprising:
providing an energy source;
delivering energy to the skin;
cooling the skin surface, wherein a temperature of the skin surface is lower than the collagen containing tissue site; and
forming new collagen in the selected collagen containing tissue site with no greater than a second degree burn created on the skin surface; and
creating a tissue effect.

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116. (previously presented) A method of creating a tissue effect, comprising:
providing a treatment apparatus that includes at least a first RF electrode;
cooling the skin surface, wherein a temperature of the skin surface is lower than tissue underlying the skin surface; and
delivering energy from the treatment apparatus through the skin surface to the tissue underlying the skin surface for a sufficient time to create a desired tissue effect while minimizing cellular necrosis of the skin surface.

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117. (previously presented) The method of claims ³⁷113, ³⁹115 or ⁴⁰116, wherein the treatment apparatus includes a light delivery device.

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118. (previously presented) The method of claims ³⁷113, ³⁹115 or ⁴⁰116, wherein the tissue effect is dermal remodeling.

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119. (previously presented) The method of claims ³⁷113, ³⁹115 or ⁴⁰116, wherein the tissue effect is skin tightening.

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120. (previously presented) The method of claims ³⁷113, ³⁹115 or ⁴⁰116, wherein the tissue effect is wrinkle reduction.

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121. (previously presented) The method of claims ³⁷113, ³⁹115 or ⁴⁰116, wherein the tissue effect is elastosis reduction.

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122. (previously presented) The method of claims ³⁷113, ³⁹115 or ⁴⁰116, wherein the tissue effect is scar reduction.

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123. (previously presented) The method of claims 37, 39 or 40, wherein the tissue effect is hair follicle modification.

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124. (previously presented) The method of claims 37, 39 or 40, wherein the tissue effect is modification of contour irregularities of a skin surface.

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125. (previously presented) The method of claims 37, 39 or 40, wherein the tissue effect is a creation of scar or nascent collagen.

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126. (previously presented) A method of creating a tissue effect, comprising:
providing a treatment apparatus that includes at least a first RF electrode;
cooling through a skin surface, wherein a temperature of the skin surface is lower than tissue underlying the skin surface; and

delivering energy from the treatment apparatus through a skin surface to a selected collagen containing tissue site for a sufficient time to induce a formation of new collagen in the selected collagen containing tissue site with no deeper than a second degree burn created on the skin surface;

modifying at least a portion of the skin surface.

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127. (previously presented) The method of claim 50, wherein the treatment apparatus includes a light delivery device coupled to a device.

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128. (previously presented) A method for creating a tissue effect, comprising:
providing a treatment apparatus that includes an energy delivery surface and at least a first RF electrode;

coupling the energy delivery surface with an external surface of the skin;
cooling a surface of the skin while heating underlying collagen containing tissue, wherein a temperature of the skin surface is lower than a temperature of the underlying collagen containing tissue;

delivering energy from the treatment apparatus through the skin surface to a selected collagen containing tissue site for a sufficient time to induce a formation of new collagen in the selected collagen containing tissue site with no deeper than a second degree burn created on the skin surface; and
creating a desired tissue effect.

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129. (previously presented) The method of claim 128, wherein the treatment apparatus includes a light delivery device. 52

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130. (previously presented) A method of creating a tissue effect, comprising:
providing a treatment apparatus that includes an energy delivery surface and at least a first RF electrode;

reducing a temperature of a collagen containing tissue site below a temperature of a skin surface, creating a thermal injury to at least a portion of the collagen in the collagen containing tissue site with a minimal cellular destruction in the epidermis;
and

inducing collagen formation.

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131. (previously presented) The method of claim 130, wherein the treatment apparatus includes a light delivery device. 54

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132. (previously presented) A method of creating a tissue effect, comprising:
providing a treatment apparatus that includes an energy delivery surface and at least a first RF electrode;

coupling the energy delivery surface with a skin surface;
cooling through the skin surface, wherein a temperature of the skin surface is lower than a temperature of an underlying collagen containing tissue;

delivering energy from the treatment apparatus through the skin surface to the underlying collagen containing tissue for a sufficient time to induce collagen formation while minimizing cellular necrosis of the skin surface.

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133. (previously presented) The method of claim 132, wherein the treatment apparatus includes a light delivery device. 56

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134. (currently amended) A treatment apparatus, comprising:
a device;

~~at least a first and a second energy delivery member coupled to the device,~~
~~wherein the first energy delivery member is an RF energy delivery device and the~~
~~second energy member is a non-RF energy delivery device~~ an energy delivery device
coupled to the device, the energy delivery device including at least a light energy
member, an RF energy member, and at least one energy delivery surface, the at least

one energy delivery surface configured to deliver energy from the light energy member and the RF energy member to and through a skin surface and create a tissue effect at the skin surface or at a tissue below the skin surface; and

a cooling member coupled to the device.

[135. (canceled)

99 136. (currently amended) A treatment apparatus, comprising:
an assembly;

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~~an electromagnetic energy device coupled to the assembly including an RF energy delivery device and a non-RF energy delivery device~~ an energy delivery device coupled to the assembly, the energy delivery device including at least a light energy member, an RF energy member, and at least one energy delivery surface, the at least one energy delivery surface configured to deliver energy from the light energy member and the RF energy member to and through a skin surface and create a tissue effect at the skin surface or at a tissue below the skin surface;

a cooling member coupled to the assembly and configured to provide cooling at a the skin surface; and

an electronic control device configured to facilitate operation of at least one of the ~~energy delivery devices~~ light energy member or the RF energy member.

137. (previously presented) A method for inducing the formation of collagen in a selected collagen containing tissue site beneath a skin surface, comprising:

delivering electromagnetic energy from an electromagnetic energy delivery device;

cooling the skin surface, wherein a temperature of the skin surface is lower than the selected collagen containing tissue site; and

delivering energy from the energy source through the skin surface to the selected collagen containing tissue site for a sufficient time to induce collagen formation in the selected collagen containing tissue site and minimizing cellular necrosis of the skin surface; and

creating a tissue effect.

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138. (previously presented) A method of creating a tissue effect, comprising:
providing an electromagnetic energy delivery device;
cooling a skin surface, wherein a temperature of the skin epidermis surface is
lower than tissue underlying the skin surface; and
delivering energy from the electromagnetic energy delivery device through the
skin surface to the tissue underlying the skin surface for a sufficient time to create a
desired tissue effect while minimizing cellular necrosis of the skin surface.

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139. (previously presented) The method of claim 138, wherein the tissue effect
is dermal remodeling.

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140. (previously presented) The method of claim 138, wherein the tissue
effect is skin tightening.

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141. (previously presented) The method of claim 138, wherein the tissue effect
is wrinkle reduction.

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142. (previously presented) The method of claim 138, wherein the tissue effect
is elastosis reduction.

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143. (previously presented) The method of claim 138, wherein the tissue effect
is scar reduction.

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144. (previously presented) The method of claim 138, wherein the tissue effect
is hair follicle modification.

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145. (previously presented) The method of claim 138, wherein the tissue effect
is modification of contour irregularities of a skin surface.

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146. (previously presented) The method of claim 138, wherein the tissue effect
is a creation of scar or nascent collagen.

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147. (previously presented) A method of creating a tissue effect, comprising:
providing a treatment apparatus that includes an electromagnetic energy
delivery device;

cooling through a skin surface, wherein a temperature of the skin epidermis surface is lower than tissue underlying the skin surface; and

delivering energy from the electromagnetic energy delivery device through a skin surface to a selected collagen containing tissue site of the tissue underlying the skin surface for a sufficient time to induce a formation of new collagen in the selected collagen containing tissue site with no deeper than a second degree burn created on the skin surface;

modifying at least a portion of the skin surface.

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148. (previously presented) A method of creating a tissue effect, comprising:
providing a treatment apparatus that includes an electromagnetic energy delivery device;

reducing a temperature of a collagen containing tissue site below a temperature of a skin surface,

creating a thermal injury to at least a portion of the collagen in the collagen containing tissue site with a minimal cellular destruction of the skin surface; and inducing collagen formation.

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149. (new) The apparatus of claim 76, wherein the at least one energy delivery surface is non-planar.

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150. (new) The apparatus of claim 76, wherein a fluid or gel is positioned between the skin surface and the at least one energy delivery surface.

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151. (new) The apparatus of claim 76, wherein the at least one energy delivery surface is a solid surface.

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152. (new) The apparatus of claim 76, wherein the at least one energy delivery surface includes a first section and a second section.

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153. (new) The apparatus of claim 76, wherein the first section and the second section are non-planar.

~~10~~ 154. (new) The apparatus of claim ~~76~~¹ wherein the first section is a surface of the RF energy member and the second section is a surface of the light energy member.

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~~11~~ 155. (new) The apparatus of claim ~~76~~¹, wherein the RF energy member is a pair of bi-polar RF electrodes.